Section 6: Practice Problems - Conditional Logic with Objects & Arrays

1. Create an array of user objects with name and age. Print only the names of users over 18.

2. Create a product object with price and inStock. Print 'Available' if inStock is true and price < 100.

3. Write a function that takes a car object and logs whether it's electric or gas-powered based on a 'type' property.

4. Loop through an array of objects. Print a custom message based on each object's category.

5. Write a function that returns 'valid' if an object has both 'email' and 'password' properties.

6. Create a nested object for a student. Use conditionals to print 'Passed' if their grade > 70.

7. Write a function that receives a movie object and returns a message if it's 'PG-13' or 'R'.

8. Create an array of book objects. Print titles of books with more than 300 pages.

9. Loop through an array of product objects. Print 'On Sale' for items with a discount property.

10. Create a function that returns 'Access granted' if user.role is 'admin', otherwise 'Access denied'.

11. Create an array of people. Count how many are above age 50 using a loop and conditionals.

12. Write a function that takes a settings object. If notifications.enabled is true, return 'Notifications On'.

13. Build a loop through weather data. Print 'Rainy' only if weather.condition equals 'rain'.

14. Create a playlist object. Print a warning if any song duration is longer than 300 seconds.

15. Write a function that returns true if an object has a 'verified' key set to true.

16. Create a user object with an address object nested inside. Print city only if state is 'CA'.

17. Write a function that checks if an item is out of stock and below reorder threshold.

18. Loop through a list of invoices. Print 'Overdue' if dueDate is before today.

19. Build a function that checks if a laptop is both light-weight and under $1000.

20. Create a bankAccount object. Print a warning if balance < 100 and account is not locked.